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#### APPENDICES

THE ENVIRONMENTAL EVALUATION WORK GROUP FY 1979 STUDIES

OF THE

WINTER NAVIGATION DEMONSTRATION PROGRAM

## ST. LAWRENCE RIVER FISHERIES STUDY

Dennis J. Dunning

Bio Systems Research Inc. 455 Cayuga Road Buffalo, New York 14225

July 31, 1979

This study was conducted as part of Project Number 5100 of the Great Lakes Basin Commission for the Environmental Evaluation Work Group of the Winter Navigation Board. Funding was provided by the U. S. Army Corps of Engineers - Detroit District through the Great Lakes Basin Commission.

Project Officer

the document has been approved too public solutions and sales in the contract of the contract

David A. Gregorka Great Lakes Basin Commission 3475 Plymouth Road Ann Arbor, Michigan 48106



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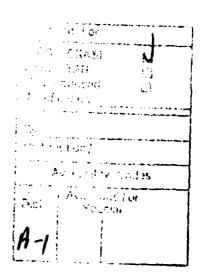
David A. Gregorka
Great Lakes Basin Commission
3475 Plymouth Road
Ann Arbor, Michigan 48106

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Appendix A
Raw Catch Data for Adult Fish Sampling





## FISH CODES a

000	All species		
001 002 003 004 005	Lampreys: Chestnut lamprey Northern brook lamprey Silver lamprey American brook lamprey Sea lamprey	Petromyzontidae	Ichthyomyzon castaneus Ichthyomyzon fossor Ichthyomyzon unicuspis Lampetra lamottei Petromyzon marinus
101 135 136 137	Sturgeons: Lake sturgeon Shortnose sturgeon Pallid sturgeon Shovelnose sturgeon	Acipenseridae	Acipenser fulvescens Acipenser brevirostrum Scaphirhynchus albus Scaphirhynchus platorynchus
102	Paddlefishes: Paddlefish	Polyodontidae	Polyodon spathula
138 103 104 139 140	Gars: Spotted gar Longnose gar Alligator gar Shortnose gar	Lepisosteidae	Lepisosteus oculatus Lepisosteus osseus Lepisosteus spatula Lepisosteus platostomus
105	Bowfins: Bowfin	Amidae	Amia calva
106 107 108 142 143	Herrings: Alewife American shad Gizzard shad Ohio shad Skipjack herring	Clupeidae	Alosa pseudoharengus Alosa sapidissima Dorosoma cepedianum Alosa alabamae Alosa chrysochloris
109	Smelts: Rainbow smelt	Osmeridae	Osmerus mordax
110 146	Mooneyes: Mooneye Goldeye Silversides	Hiodontidae Atherinidae	Hiodon tergisus Hiodon alosoides Labidesthes sicculus
170	Brook silverside  Mudminnows: Central mudminnow	Umbridae	Umbra limi

#### FISH CODES (Continued)

112 113 114	Pikes: Grass pickerel Northern pike Muskellunge	Esocidae	Esox americanus vermiculatus Esox lucius Esox masquinongy
115 116 117 118 119 120 121 122 123 150 151	Freshwater catfishes: White catfish Black bullhead Yellow bullhead Brown bullhead Channel catfish Stonecat Tadpole madtom Brindled madtom Flathead catfish Blue catfish Bullheads	Ictaluridae	Ictalurus catus Ictalurus melas Ictalurus natalis Ictalurus nebulosus Ictalurus punctatis Noturus flavus Noturus gyrinus Noturus miurus Pylodictis olivaris Ictalurus furcatus Spp.
124	Freshwater eels: American eel	Anguillidae	Anguilla rostrata
125	Killifishes: Banded killifish	Cyprinodontidae	Fundulus diaphanus
126	Livebearers: Mosquitofish	Poeciliidae	Gambusia affinis
127	Codfishes and hakes: Burbot	Gadidae	Lota lota
128 129 130	Sticklebacks: Brook stickleback Threespine stickleback Ninespine stickleback	Gasterosteidae	Culea inconstans Gasterosteus aculeatus Pungitius pungitius
131	Trout-perches: Trout-perch	Percopsidae	Percopsis omiscomaycus
132 133	Sea basses: White perch White bass	Percichthyidae	Morone americana Morone chrysops
134	Drums: Freshwater drum	Sciaenidae	Aplodinotus grunniens

## FISH CODES (Continued)

000	Whitefishes:	Salmonidae	
200	Longjaw cisco	Rare	Coregonus alpenae
201 202	Cisco (lake herring)		Coregonus artedii
202	Lake whitefish		Coregonus clupeaformis
203	Bloater		Coregonus hoyi
205	Deepwater cisco	Extinct	Coregonus johannae
206	Kiyi		Coregonus kiyi
207	Blackfin cisco	Rare or extinct	Coregonus nigripinnis
207	Shortnose cisco		Coregonus reighardi
209	L. Superior shortnose		Coregonus reighardi dymondi
209	cisco		
210	Shortjaw cisco	Rare	Coregonus zenithicus
211	Pygmy whitefish		Prosopium coulteri
212	Round whitefish		Prosopium cylindraceum
213	Unidentified chubs		
213	Chubs (large)		
214	Chubs (small)		
216	Chubs		
210	·		
300	Trouts and graylings:		hamakan takantanha
301	Chinook salmon		Oncorhynchus tshawytscha
302	Cutthroat trout		Salmo clarki
303	Rainbow trout		Salmo gairdneri
304	Atlantic salmon		Salmo salar
305	Brown trout		Salmo trutta Salvelinus fontinalis
306	Brook trout		
307	Lake trout		Salvelinus namaycush Salvelinus namaycush siscowet
308	Siscowet (fat trout)		Thymallus arcticus
309	Artic grayling		Oncorhynchus kisutch
310	Coho salmon		Oncorhynchus nerka
31.1	Kokanee		Oncornynchus herka
312	Humper lake trout		
313	Halfbreed lake trout		
314	Splake (brook trout x lak	e trout)	
315	Released lake trout (comm	ercial) MDNR use	Oncorhynchus gorbuscha
316	Pink salmon		Oncornynchus gorbusena
		Catostomidae	
	Gualianas		
400	Suckers:		Carpiodes cyprinus
403	Quillback		Catostomus catostomus
404	Longnose sucker White sucker		Catostomus commersoni
405	White sucker Lake chubsucker		Erimyzon sucetta
406			Hypentelium nigricans
407	Northern hogsucker		Ictiobus cyprinellus
408	Bigmouth buffalo		Minytrema melanops
409	Spotted sucker		

## FISH CODES (Continued)

410 411 412 413 414 415 417 423 424 425 429 435 436	Silver redhorse Black redhorse Golden redhorse Northern redhorse (Shorthead) Greater redhorse Unidentified redhorse River redhorse River carpsucker Highfin carpsucker Plains carpsucker Blue sucker Smallmouth buffalo Black buffalo	Moxostoma anisurum Moxostoma duquesnei Moxostoma erythrurum Moxostoma macrolepidotum Moxostoma valenciennesi Moxostoma carinatum Carpiodes carpio Carpiodes velifer Carpiodes forbesi Cycleptus elongatus Ictiobus bubalus Ictiobus niger
	Cyprini	dae
500 401 402 416 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522	Minnows and Carp: Goldfish Carp Goldfish x carp hybrid Silver chub Golden shiner Pugnose shiner Emerald shiner Common shiner Blackchin shiner Blackchin shiner Spottail shiner Spottail shiner Spottin shiner Pugnose minnow Bluntnose minnow Bluntnose minnow Flathead minnow Longnose dace Unidentified minnows Stoneroller Creek chub Lake chub Sturgeon chub Fall Fish Silvery Minnow	Carassius auratus Cyprinus carpio   Hybobsis storeriana Notemigonus crysoleucas Notropis anogenus Notropis athernoides Notropis cornutus Notropis heterodon Notorpis heterolepis Notropis spilopterus Notropis spilopterus Notropis stramineus Notropis volucellus Opsopoedus emiliae Pimephales notatus Pimephales promelas Rhinichthys cataractae   Campostoma anomalum Semotilus atromaculatus Couesius plumbeus Hybopsis gelida Semotilus corporalis Hybognathus nuchalis Exoglossum maxillingua
523 524	Cutlips Bridle Shiner	Notropis bifrenatus

#### FISH CODES (Concluded)

	Sunfishes:	Centrarchidae	
600	Sunfish and bass		
601	Rockbass -		Ambloplites rupestris
602	Warmouth		Lepomis gulosus .
603	Green sunfish		Lepomis cyanellus
604	Pumpkinseed		Lepomis gibbosus
605	Bluegill		Lepomis macrochirus
606	Longear sunfish		Lepomis megalotus
607	Smallmouth bass		Micropterus dolomieui
608	Largemouth bass		Micropterus salmoides
609	White crappie		Pomoxis annularis
610	Black crappie		Pomoxis nigromaculatus
611	Crappies		Pomoxis spp.
	Perches:	Percidae	
700	Darters		
701	Eastern sand darter		Ammocrypta pellucida
702	Greenside darter		Etheostoma blenniodes
703	Iowa darter		Etheostoma exile
704	Fantail darter		Etheostoma flabellare
705	Least darter		Etheostoma microperca
706	Johnny darter		Etheostoma nigrum
707	Logperch		Percina caprodes
708	Channel darter		Percina copelandi
709	Blackside darter		Percina maculata
710	River darter		Percina shumardi
711	Unidentified darters		
800	Yellow perch and pikepero	e <b>h</b>	
801	Yellow perch		Perca flavescens
802	Sauger		Stizostedion canadense
803	Walleye		Stizostedion vitreum vitreum
804	Blue pike	Rare or extinct	Stizostedion vitreum glaucum
900	Sculpin:	Cottidae	
901	Mottled sculpin		Cottus bairdi
902	Slimy sculpin		Cottus cognatus
903	Spoonhead sculpin		Cottus ricei
904	Deepwater sculpin		Myoxocephalus quadricornis
999	Miscellaneous or unidenti	lfied species	

#### a. From Eckert and Hanlon (1976)

#### PASSIVE NET FORM

COLUMN	CODE	
1	0 1 2 3 4 5	Gear Type Trawl Gill Net Trap Net Seine Electroshocking Fishing lines
2	1 2 3 4 5 6 7	Gear type description Gill net - stationary Bottom Mid-water Surface Vertical Gill net - drift Horizontal surface Horizontal mid-water Vertical
3-8		Month-day-year of collection
9		Vessel
10-13		Serial number of collection
14	1 2	Water body Lake Ontario St. Lawrence River
15-17		Grid - (to be assigned)
18	1 2	Location code type UTM - Universal Transverse Mercator Standard latitude longitude
19-23 24-30	•	UTM Latitude Longitude
19-20 21-24 25 26-30 31-33		Standard latitude longitude Blank Latitude to nearest minute Blank Longitude to nearest minute Time set to nearest 10 minutes - 24 hour clock

COLUMN	CODE	
34-36		Time lift
37		Number of nights net fished
38-40		Temperature to nearest tenth of degree centigrade
41	_	Effectiveness of set
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	. <b>2</b>	Poor

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St. Laurence River Fisheries Project

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St. Lawrence River Fisheries Project

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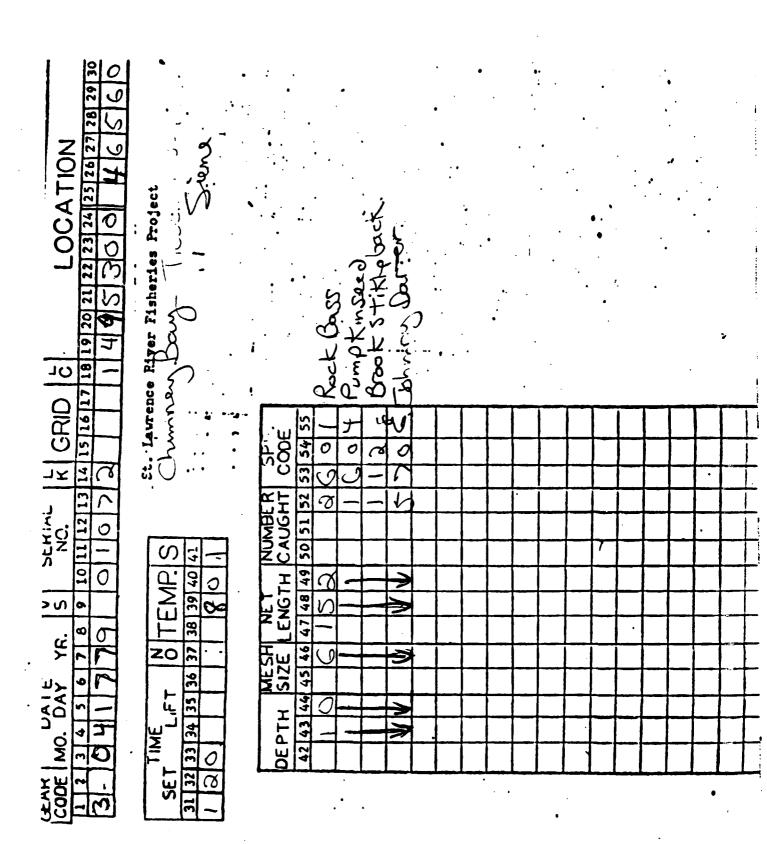
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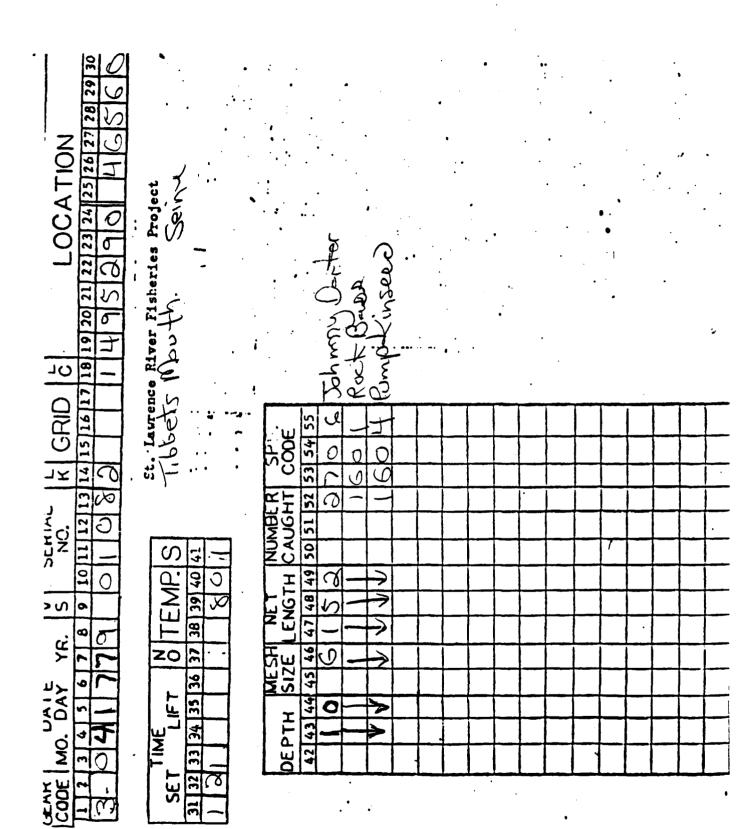
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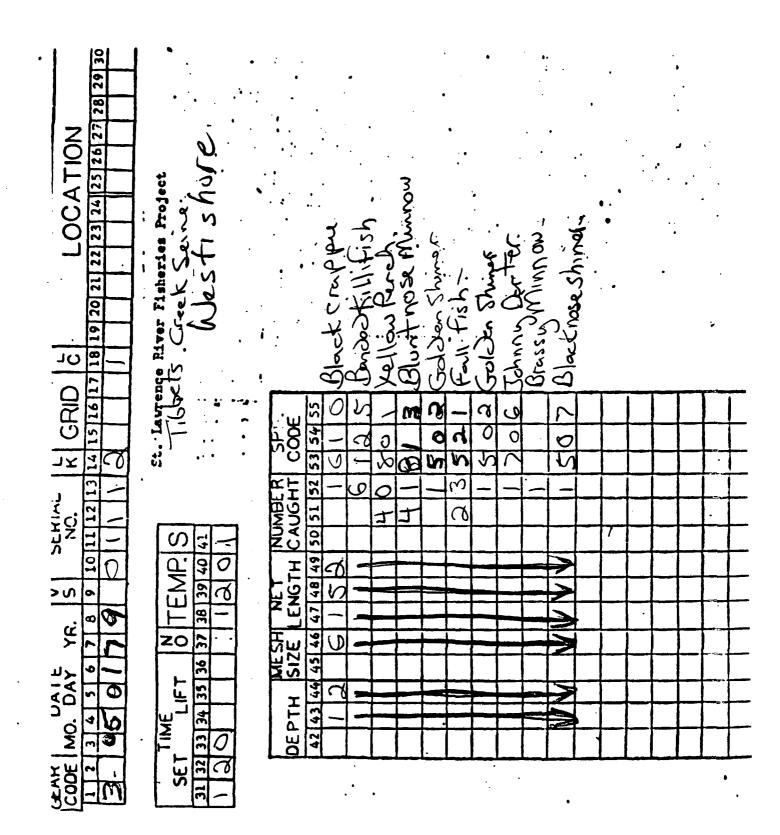
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Appendix B
Recorded Surface Water Temperatures

Recorded Surface Water Temperatures (°C) In the St. Lawrence River - 1979<sup>a</sup>

	Morristo	wn Point	Chimney	Bay	Tibbits Creek
27	-		2	2	2
29	2	2	-	-	-
4	6	3	6	6	6
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13	4	-	-	-	9
17	6	6	-	-	-
	_	_		-	8
19	7	7	-	-	10
25	8	6	7	7	14
1	-	_	_	_	12
2	7	-	-	-	13
3	7	7	10	10	12
10	12	9	9	9	17
	29 4 11 12 13 17 18 19 25 1 2 3	2m Site  27 29 2 4 6 11 4 12 4 13 4 17 6 18 - 19 7 25 8 1 - 2 7 3 7	2m Site 15m Site  27 29 2 4 6 3 11 4 12 4 13 4 - 17 6 18 - 19 7 25 8 6 1 - 2 7 3 7	2m Site 15m Site 2m Site  27	29       2       2       -       -         4       6       3       6       6         11       4       4       7       5         12       4       4       -       -         13       4       -       -       -         17       6       6       -       -       -         18       -       -       -       -       -         19       7       7       -       -       -         25       8       6       7       7       -         2       7       -       -       -       -         3       7       7       10       10

a. Winter temperature at all locations was 0°C.

Appendix C

Raw Catch Data and Flow Volumes for Larval Fish Sampling

Location	- [ ]	St. Lawrence River	River		¥	Year 1979	79	1	Miller Samplers	Sam	plers
Sample	Depth	Date	Day- Night	Replication	Nur Eggs Viable Op	umber s Opaque	of Larvae	Nur Eggs Viable Or	Number/m <sup>3</sup>	arvae	Volume H 0 Fiftered
Z Z	22	4/3	А	1	0	0	0	O	0	0	12.2
3	5-2	4/3	А	2	0	0	0	0	0	0	12,2
No	2-15	4/3	Δ	,	0	0	0	0	9	0	12.5
MP	5-15	4/3	A	٦	0	0	0	٥	0	0	12,5
	B-15	4/3	A	1	0	0	0	0	Ö	0	11.11
ع ا 99	8-15	4/3	A	7	ဝ	0	0	0	อ	O	1.11
								•			
Z D	5-2	4/4	z	_	q	0	0	0	0	٥	12.6
B	5-2	4/4	₹	2	0	9	9	0	0	0	12.6
8	5-15	4/4	>	1	в	0	Ö	9	0	O	13,5
A W	3-15	11/4	7	2	0	0	0	0	0	D	13.5
M P	8-15	4/4	>	,	O	O	0	0	0	e	12.8
MP	8-15	4/4	>	7	0	0	0	0	0	0	12.8
							1		·		

MH - Morriscown Farbor MP - Morriscown Point S - Surface B- Bottom

CB - CHimney Bay

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BSRI LAB ICHTHYOPLANKTON DATA

Miller Samplers Year 1979 Location St. Lawrence River

Volume	H 0 Fiftgred	0 //	10.1						10,7	, 0	787	رسا ي	Δ	م الم		
No.	_			12/	12.						2   8	187	=		 _	
6	Larvae	0	0	0	0	0	0		0	0	0	0	9	0		
Number/m <sup>3</sup>	ls Opaque	0	0	0	0	0	0		0	8	0	0	0	0		
V	Eggs Viable O	0	Đ	0	0	0	0	٠	0	0	9	0	0	0		
of	Larvae	0	0	0	0	0	0		0	0	0	0	O	0		
nber	gs Opaque	0	0	0	0	0	8		0	0	0	0	0	0		
¥	Eggs Viable Op	0	0	0	0	0	0		0	0	0	0	8	0		
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į	Day- Night	A	9	А	A	A	(		Z	z	Z	Z	2	2		
4	Date	4/3	4/3	e/h	8/4	4/3	4/3		4/4	4/4	*/*	4/4	h/h	<i>t</i> / <sub>h</sub>		
d+ th	(B)	5-2	5-2	5-15	5-15	8-15	8-15		5-2	2-5	51-5	51-8	8-15	8-15		
Samole	site	28	CB	CB	SD.	CB	69		CB	CB	CB	CB	СВ	CB		
S	<b>.</b>				<u>·                                    </u>	200							$\preceq$			

CB - Chilmney Bay MP - Morristown Point MH - Morristown Harbor

BSRI LAB ICHTHYOPLANKTON DATA

	Miller Samplers	Volume	H <sub>2</sub> 0 Fiftgred (m)	15.3	18,3	14.7	14.7	15,2	15.2	りさ	14.5	15,7	15.7	15.0	15.0	15,5	15.51	15.7	15,7
(	er Ja	33	Larvae	0	0	0	0	0	ତ	B	OLarvae 10690 Juu	ρ	0	0	o Larvic	0	0	0	a
11000	E W	Number/m <sup>3</sup>	is Opaque	0	0	0	o	· O	0	0	0	٥	o	0	0	0	O	٥	0
		2	Eggs Viable Op	0	0	ଚ	O	O	Q	0	0	О	૦	0	0	0	0	0	0
	79	of	Larvae	0	0	0	0	0	0	0	1-Juventle	0	0	0	1 Juvenile smelt	0	၁	0	0
2	Year 1979	nber	Opaque	0	0	e	0	Q	0	0	o	0	О	0	0	D	0	0	0
	Xe	~	Eggs Viable Op	0	0	Ø	٥	$\mathcal{O}$	0	0	0	0	0	0	0	0	0	0	0
3			Replication	7	2		2	-	2	1	7		7	,	7	•	7	1	7
	River		Day- Night	Д	0	Д	A	A	(-)	0	Ð	z	Z	Z	2	V	Z	2	2
	Lawrence		Date	11/4	11/4	1/1	11/2	4/11	<del>*</del> /	*/ */- */-	17/	4/12	4/12	4/12	4/2	4/12	% %	4/2	4/2
	St.		ueptn (m)	5-5	5-5	2-5	2-5	5-15	5-15	8-15	3-15	5-5	5-5	2-5	2-5	5-15	5-15	B-15	8-15
	Location		site	AH	MM	MP	a p	BP	MP	a p	MP	M H	M H	MP	MP	W b	W b	MP	M P
								20											

CB - Chimney Bay WP - Morristown Point MH - Morristown Harbor

Year 1979

Location St. Lawrence River

Volume H 0 Fiftered	0.9/	16.0	(6,1	//9/	17.2	7.71	14,0	14.0	15,0	15,0	15.5	15.5	15.5	15.5	16.6	16.6	
arvae	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9	0	
Number/m <sup>3</sup>	0	0	5	0	0	0	0	0	0	0	Ö	0	0	0	0	0	
Nur Eggs Vlable Op	0	0	0	0	0	0	0	0	ବ	0	0	Đ	0	0	3	0	
Larvae	0	0	9	ວ	0	9	0	0	9	0	0	ე	0	0	0	0	Chimney Bay
Number of	0	0	Ø	0	Э	0	0	0	0	9	Ö	0	0	૦	0	0	CB - CFE
Eggs Viable O	0	O	0	9	0	0	0	0	0	0	0	0	0	0	0	0	
Replication	-	7	-	7	-	7		2		2	1	2		7		7	- Morristown Point
Day- Night	a	Œ	·A	(	(-)	A	V	N	N	N	≥	Z	A	<u>A</u>	Z	7	oor MP
Date	4/11	4/11	4/11	<del>'</del>	ヹ	#/!!	4/12	4/12	4/12	4/12	4/12	412	4/18	4/18	4/19	4/19	own Hark
Depth (m)	2-5	2-5	5-15	51-5	B-15	B-15	5-2	5-2	5-15	5-15	8-15	8-15	5-5	5-5	5-5	5.5	Morristown Harbor
ample site	CB	60	68	6.8	60	CB	68	68	68	68	68	68	# ₩	T F	A H	4 H	- WH

Miller Samplers

1979 Year Location St. Lawrence River

	<b>ט</b>		<del></del> -	1	<del></del>	1	r	1	1					<del></del>	T	<del></del>	т
Volume H 0	Filtered (m)	14.0	14,0	15,9	15.9	15.3	15,3	14.7	14.7	17.9	17.9	14.9	6'41				
arvae		0	0	0	Ø	0	5	٥	0	0	0	Otanac periJuv	0				
Number/m <sup>3</sup>	Opaque	0	0	0	0	Ö	ଚ	۵	อ	0	0	0	0				
Nun Eggs	Viable Upaque	0	0	0	0	0	0	ဗ	Ð	0	0	0	0				
f Larvae		0	0	٥	0	д	ଚ	0	0	0	O	1-Juvenile smelt	อ				
Number of	opaque	0	0	O	0	0	Q	0	0	0	0	0	0				
Nur	viable Upaque	0	0	0	0	0	Q	0	Ð	0	0	0	0				
Replication		1	7	1	7	1	4	1	7	1	7	1	٦				
Day-	ant dans	Ν	N	N	N	N	N	A	D	D	A	A	D	•			
Date		4/19	4/19	4/10	4/19	4/19	4/19	31/4	4/18	4/18	81/2	4/18	4/18				
, Depth (m)		2-5	5-2	5-15	5-15	8-15	8-15	5-2	5-2	5-15	5-15	8-15	8-15				
Sample site		90	OB	63	ć B	CB	18	CB	68	CB	CB	CB	CB		,		

CB - Chimney Bay

MP - Morristown Point

MH - Morristown Harbor

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Miller Samplers Year 1979 Location St. Lawrence River

Sample	Depth	Date	Davi	Renlication		· Number of	j.		Number/m <sup>3</sup>	13	Volume
site	(m)	ļ	Night	reprication	Viable Or	gs Opaque	Larvae	Eggs Viable Op	Opaque	Larvae	H 0 Fiftgred
MP	5-5	81/4	A	/	0	0	0	0	0	9	16.7
MP	5-2	4/18	A	7	Q	0	0	O	၁	Ð	16.7
d w	5-15	81/4	A		0	9	0	0	2	G	640
A.P	5-15	\$//	Q	7	0	0	o	0	િ	อ	6 #1
d &	8-15	81/4	D	1	0	P	၁	Ø	0	2	14.0
204	B-15	1/18	A	7	Ğ	0	ວ	0	O	0	14.0
	,							v.			
3	5-2	61/2	Z	-	0	0	Ö	Ð	0	0	(4.7
C E	5-2	4/19	2	7	Ð	0	ව	0	0	0	/6.7
a P	5-15	4114	~		0	0	၁	0	0	0	18.4
d W	5-15	4/19	~	٦	0	Θ	၁	0	0	e	18.4
2	B-15	61/1	Z	-	0	ວ	O	0	9	0	15.9
MP	8-15	61/4	Z	7	0	િ	3	0	O	9	15.9
							·				

CB - Chimney Bay MP - Morristown Point MH - Morristown Harbor

	ers	Volume H20 Fiftered	19.0	19.0	18.1	18,1	17.6	7.21	18.2	16,2	15.5	6.5	17.6	17.6	18.8	18.8	15.1	15.1
(	Miller Samyslers	arvae	9	0	ຄ	7	ρ	o O	0	0	0	0	0	0	ට	O	0	0
	iller	nber/m	0	Θ	0	0	O	Ð	O	O	9	O	0	О	อ	0	Ø	0
	ξ.	Nur Eggs Viable Op	0	0	0	0	0	0	,Q	0	ତ	8	0	0	Q	0	0	6
	6/	Larvae	0	٥	0	0	0	a	0	0	0	0	0	0	<b>ට</b>	٥	0	ଚ
¥ .	Year 1979	Number of	0	0	0	0	0	0	0	0	9	ପ	0	Ð	Ø	o	6	C
TOTAL PARTICIPATION DATA	, Ke	Nur Eggs Viable Op	0	0	0	O	0	<b>©</b>	0	0	Ø	0	Q	0	0	0	0	C
ב ל		Replication	-	٦		7	1	7		7		2	1	7	_	7	1	7
1469	River	Day- Night		A	Z	て		A	A	Α	6	A	Z	Z	Z	Z	N	7
	St. Lawrence	Date	45/4	424	1/25	1/25	h7/4	474	47%	47/	7.7.	424	27%	27%	ンジ	57/4	125	27%
	[ ]	Depth (m)	5-5	5-5	5-5	<b>S-S</b>	2-5	2-5	2-15	51-5	8-15	8-15	2-5	2-5	5-15	5-15	8-15	8-15
	Location	Sample	MH	МH	M H	MH	MP	MP	MP	MP	JW	U W	d W	dW	JW	dh	Jhu	dw
							<del>-</del>	205										

CB - Chimney Bay

MP - Morristown Point

MH - Morriscown Harbor

Year 1979

St. Lawrence River

Location

Miller Samplers

Volume
H 0
Fiftgred (m) 15.3 5.61 3 17.0 15.7 18.9 17.0 18.9 15.2 781 15.3 18.6 741 Larvae 0  $\mathcal{O}$ 0 0 Q 0 0 Q 0 0 0 0 Number/m<sup>3</sup> Eggs Viable Opaque 0 O 0 O 0 () Ð 0 0 0 0 Q Q 0 0  $\mathcal{C}$ Q 6 0 0 0 O 0 0 Larvae O O O 0 0 C 0 0 0 0 9 0 Number of Eggs Viable Opaque Ó 0 0 0 0 0 Θ O 0 0 0 0 O 0 9 0 0 O 0  $\mathcal{O}$ O 0 0 0 Replication 7 2 7 2 7 Day-Night 0 A (F) A Z Z Z Z Z 4/4 F-4/h 444 41/4 424 **\***// \*/\* 4/25 がア ナアナ Date 77% 17 8-15 5-15 5-15 8-15 Depth (m) 51-5 5-2 8-15 5-15 B-15 2-5 5-2 V Sample site CB63 CB CB 68 50 CB CB $\mathcal{C}\mathcal{B}$  $\boldsymbol{\varphi}$ 97 CB

- Chimney Bay CB - Morristown Point Ψb - Morristown Harbor 要

Location		St. Lawrence	River		X	Year 1979	6,	M - 1	1181	Jan	Sampiers
Sample	Depth	Date	Day- Night	Replication	Nu Eggs Viable O	Number 38 Opaque	of Larvae	Num Eggs Viable O	Number/m <sup>3</sup> gs L	arvae	Volume H 0 Fiftgred (m)
MH	<b>S-S</b>	1/5	Α	1	0	0	٥	0	0	0	14.4
МM	5-5	1/5	A ·	7	0	O	ຄ	0	0	0	14.4
МH	5-5	5/3	7	1	0	0	0	0	0	0	15.2
H &	2-5	5/3	N	2	0	0	0	0	0	ં ૦	15.2
MP	2-5	1/2	Α	_	0	9	0	٥	Ó	0	15,2
MP	5-2	%	A	7	0	0	0	9	O	0	15.2
MP	51-5	1/5	A	_	0	0	0	0	Ø	Ð	14.7
dW	5-15	1/5	<u>A</u>	7	٥	0	0	0	ତ	0	14.7
dw	8-15	1/5	A	-	0	ଚ	0	Q	0	<u>م</u>	15.3
MP	8-15	12/	Ð	٦	0	၁	0	0	0	ଚ	/5,3
MP	2-5	5/3	Z	7	0	0	0	0	0	ର	14.2
d W	5-2	5/3	7	7	0	0	0	0	0	Э	14,2
dw	5-15	2/3	7	1	0	0	0	0	0	e	14.6
dW	51-5	43	Z	7	0	Q	۵	0	Ø	o	9'41
MP	8-15	73	て	1	0	0	0	0	0	0	15.4
$\omega$	8-15	5/3	マ	7	0	0	0	0	0	0	15.4
WH	- Morrist	Morristown Harbor	rbox MP	- Morristown	Point	CE - CH	Chimney Bay	Λı			

MP - Morristown Point MH - Morristown Harbor

1979 Miller Samplers	r of Number/m <sup>3</sup> Volume Larvae Eggs Larvae H <sub>0</sub> ue Vlable Opaque Fiftered	0 0 0 0 0 0	0 0 0 13.9	7'7 0 0 0 O	1 Juvenile 0 0 larvae 16.4	0 0	0 0 0 0 15.4	14.4	h'+1 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0		
Miller	Number/m Eggs ble Opaque				9	о́		0				၁			
	arvae Vla				v										
Year 1979	Number o	0	0	0	<del>-</del>	0	0	0	0	0	0	0	Q		
Y.	Eggs Viable Op	0	٥	0	0	ව	0	0	0	0	0	ວ	ອ		
	Replication		٨		7	_	7	1	2		7	-	7		
River	Day- Night	(	A	A	9	A	A	Z	Z	N.	7	7	Ν		
Lawrence River	Date	1/5	1/5	5/1	1/5	3/	1/5	5/3	5/3	5/3	%	5/3	5/3		
St.	Depth (m)	5-2	5-5	5-15	5-15	8-15	8-15	2-5	5-5	5-15	5-15	8-15	B-15		
Location	Sample	CB	CB	CB	ED.	CB	නිට 208	(B	CB	0 B	CB	CB	CB		

CB - Cliffming Bay MP - Morrintown Point MH - Morristown Harbor

Location	St.	Lawrence	River		X	Year 1979	79	<b>.</b>			c is idwar
Sample	Depth (m)	Date	Day- Night	Replication	Nun Eggs Viable Op	aber aque	of Larvae	Nun Eggs Viable Op	Number/m <sup>3</sup>	Larvae	Volume H 0 Fiftgred
MH	5-5	5/6	A	_	0	Q	ρ	0	0	0	74.2
¥ E	5-5	5/10	Q	7	0	o	0	0	$\mathcal{C}$	0	14,2
a B	<b>S-2</b>	5/10	A	/	0	0	0	0	0	0	4.51
d 6	2-5	5/10		7	0	0	D	0	6	0	15.4
30	5-15	%	<u>A</u>	1	0	0	P	0	0	8	13.6
MP	5-15	%	A	2	0	ତ	O	0	0	Q	13.6
d W	8-15	%	A	1	9	Q	1 yellow perch	0	อ	\$290.0	15.2
a B	8-15	%	٩	7	0	0	O	0	0	0	15.2
CB	5-5	%	A	-	0	0	Q	0	0	0	/3./
CB	5-2	1%	A	7	0	e	0	0	0	ာ	/3./
Св	5-15	3	P	-	0	0	1 xellow perch	3	૦	0.0658	7.5)
CB	5-15	%	7	7	0	0	0	9	5	3.	15.2
68	B-15	グ	A	_	0	0	3 yellow	0	)	0,2000	15,0
00	8-15	%	A	7	0	0	ا موااعم	0	0	0.0667	15.0
HW	. Marriatown	num Harber	אריד אום	Morrinton.m	an gree						

BONI LAB ICHIRIOTEANNION DAIA	River Year 1979 NICHEL SamplerS	Day- Replication Eggs Larvae Eggs Larvae H 0 Viable Opaque Fiftered	N   0 0 1White 0 0 0,0725 13.8	N 2 0 0 1 yeller 0 0 0,0725 13,8	N 1 0 1 10016ml. 0 0.0752 0.0752 13.3	N 2 0 0 0 0 0 0 13.3		0 0	N 1 0 0 24 yellow 0 0 1,9200 12.5	N 2 0 0 19 Yellow 0 0 1,5200 12,5	0 0	N 2 0 0 1 United 0 0 0.0622 15,1	941 0 0 0 0 0 0 N	N 2 0 0 1 Milburgath 0 0 0.1342 14,9	N 1 O 0 1 thirdust. O 0 0,0746 13.4	N 2 0 0 0 0 0 13.4	
_	Yea	Egg Vlable	0		0 1	2 0	0		0		0		0		0 /		
INCO	lver		V	Z	7	7	N	N	N	Z	Z	Z	z	N	Z	Z	
	St. Lawrence R	Date D	2/1	11/5	5/17	5/17	S/1	1/5	5/17	5/1	577	3/1	5/17	%	5/1	5/1	
		Depth (m)	5-2	5-5	5175	3-15	8-15	8-15	5-2	5-2	5-15	5-15	B-15	8-15	5-5	5-5	
	Location	Sample site	CB	CB	(8	90	CB	CB	MP	d W	Wb	MP	Mρ	MP	MH	HE	

Plankton nets with bongo frame H 0 Fiftered 130,7 127.4 122,2 7.8-1 Volume 32,0 0,601 6.41 E S 113.4 ৩ 133. 19 3.4331 1045.0 0.0000 0.3344 0.0079 Larvae 0.0794 0.0078 4.0435 0,0127 8.4070 Number/m3 Eggs Viable Opaque 0 0 0 O 0 0 J 0 O Ð O 0 0 O 0 0 0 0 0 0 1 But bot 1 John y Barter 1 John y Barter 1 Long author Coll of 1 John y C 53 Yellow perch Isnelt 520/ellow petch 63 /cllen porch 972 Mangetod > yellow Perth 436 yellow Perch Socatory 40 Yellow Perch & Yellow perch Larvae 1979 Number of Eggs Viable Opaque 0 0 Year O 0 0 0 O 0 0 O 0 0 0 0 0 0 0 0 0 0 Replication 4 7 4 7 1 Day-Night St. Lawrence River Z Z Z Z ₹ て て  $\geq$ 2 Z 5/17 5/17 5/7 5/2 Date 2/3 5/17 5/1 32 27 Depth 5-15 3-15 5-15 5-15 2-5 2-5 2.5 2-5 S S ら Location Sample  $\boldsymbol{\omega}$ ME 2 I E 08 Q. S S S Φ CB  $\boldsymbol{\omega}$ Ξ **∵** 

Married ı ŝ Morristown Harber ¥

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